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Sub H17

44. (New) A voice-switching telecommunications network having service switching points controlled by a common channel signaling system connected to the service switching points and to paired signal transfer points that maintain normal operation of the voice-switching telecommunications network, the method comprising:

monitoring call-carrying voice signaling between the service switching points and the signal transfer points and selecting the call-carrying voice signaling relating to multiple switched calls over a period of time and creating a plurality of flat files;

collating the flat files by transaction;

processing the collated flat files to create relational files relating to the multiple switched calls for multiple called numbers;

performing an on line analysis program to obtain a multidimensional database from the multiple switched calls to multiple called numbers of said relational files, said on line analysis program supporting interactive analysis for one or more users; and

generating an on line network traffic load report from the multidimensional database based at least in part on said interactive analysis.

45. (New) The method according to claim 44, wherein the service switching points are central office switches, tandem switches, or end office switches.

46. (New) The method according to claim 44, wherein the monitoring step includes monitoring for normal operation congestion in a trunking network as a result of unbalanced loading between the service switching points in the voice-switching telecommunications network.

47. (New) The method according to claim 44, wherein the monitoring step includes monitoring for normal operation congestion in a trunking network as a result of routing utilization between the service switching points in the voice-switching telecommunications network.

48. (New) The method according to claim 44, wherein the period of time relating to the monitoring of call-carrying voice signaling between the service switching points and the